

RAW SEQUENCE LISTING

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Application Serial Number: 10/561,743
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PATENT APPLICATION: US/10/561,743

DATE: 04/20/2006

TIME: 12:19:35

Input Set : A:\PTO.TS.TXT

Output Set: N:\CRF4\04202006\J561743.raw

3 <110> APPLICANT: Efthymios Ippikoglou
 5 <120> TITLE OF INVENTION: METHOD OF PRODUCING RECOMBINANT DNA MOLECULES
 7 <130> FILE REFERENCE: 02901/0203760-US0
 9 <140> CURRENT APPLICATION NUMBER: 10/561,743
 10 <141> CURRENT FILING DATE: 2005-12-20
 12 <150> PRIOR APPLICATION NUMBER: PCT/EP2004/006600
 13 <151> PRIOR FILING DATE: 2004-06-18
 15 <150> PRIOR APPLICATION NUMBER: 60/480,581
 16 <151> PRIOR FILING DATE: 2003-06-20
 18 <150> PRIOR APPLICATION NUMBER: 60/493,586
 19 <151> PRIOR FILING DATE: 2003-08-07
 21 <160> NUMBER OF SEQ ID NOS: 31
 23 <170> SOFTWARE: PatentIn version 3.1
 26 <210> SEQ ID NO: 1
 27 <211> LENGTH: 1909
 28 <212> TYPE: DNA
 29 <213> ORGANISM: Homo sapiens
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 31 <221> NAME/KEY: misc_feature
 32 <222> LOCATION: (1)..(1909)
 33 <223> OTHER INFORMATION: cDNA sequence for human b-FSH
 35 <400> SEQUENCE: 1
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 40 attgcaatag agaaaagaaga atgtcgttt tgcataagca tcaacaccac ttggtgtgtct 180
 42 ggctactgct acaccaggaa tctggtgtat aaggacccag ccaggcccaa aatccagaaaa 240
 44 acatgtacct tcaaggaact ggtatatgaa acagttagag tgcggcgctg tgctcaccat 300
 46 gcagattcct tgtatacata cccagtggcc acccagtgtc actgtggcaa gtgtgacagc 360
 48 gacagcactg attgtactgt gcgaggcctg gggcccagct actgctcctt tggtaaatg 420
 50 aaagaataaaa gatcagtggc catttcaggg cacataccct tgtcctgaag gaccaagata 480
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 56 gccaggactc catcatgatt cagctctata ttcccttaggtc tgatttcata aggtttattc 660
 58 agtcttaact cacagacttg tgcctggtt cttctttaaa aatcttagaa atcttcctcag 720
 60 gcaatgcctc tctcttaggg gaaaaacataa gccttagaagg aggaagcagt aatgggagtg 780
 62 agtggaaagaa ctaactgcag cagtcttctg gtagactctt gggccctcta gagcaaggc 840
 64 agcatcttca gcattgtac gtcataatgcct agcactctgc ctggaaactta gaaacacaac 900
 66 aatggcttct ttagatcaga aaggtaagg gtagaaaata ctggaaaggat atgtttgagg 960
 68 taagctgtat aggctgccc cagcacacca gtcccatgaa agttagtggc atcagttca 1020
 70 cctcgccctt tctccagcac atgagtattt agacatgtat gttctttctg aattgtttgg 1080
 72 tacagatggg gagtaacaga gctcgaagat ttccaagcta ttactaccaa gcctgttagt 1140
 74 taagggcaaa ggcaagaaat tgtaatttgg ggctgtggaa attagcctgc ctctattcat 1200
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78	gaaaaaacca aactatctca ccctaccctc cctaggatcc acttctttgg aatgacaaag	1320
80	gatttcaaag taggttgc gcaatttaat aaataatt aatttgtcta	1380
82	ccaaatatat ttgtataaat aatagctc tttagaaagaa ttagccatgg gggatcgag	1440
84	gggaaactgc tgccccatgc tgcactcgtct acatcaatct tctatttat ccatccatgt	1500
86	tctcccaat ctgtgccttc ttcaacagg ttatataat aaactattc atgagttgat	1560
88	ttctttaaa cgtgttaact gtcttagtta tgcactcagt ttcacactca tattgtttaa	1620
90	ctaattttt taaagtctta ttttttaat aaagatgcta gccaccagag tcacggcttg	1680
92	gattgttta tgtacaaaca gatgacttag aaattctgta tttataata atattagtgg	1740
94	aatgaaatct taaaatataa ttcccagtgt ttctataat attaccttc cttatctttg	1800
96	gagatattaa aaataatttt gtggatttc tgaagtgtt tgcacttaa atttcctgtc	1860
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108	<222> LOCATION: (1)..(5)	
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112	atgaagacac tccagttttt cttcctttc tggtgctgga aagcaatctg ctgc	54
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116	<211> LENGTH: 159	
117	<212> TYPE: DNA	
118	<213> ORGANISM: Homo sapiens	
120	<220> FEATURE:	
121	<221> NAME/KEY: exon	
122	<222> LOCATION: (1)..(159)	
123	<223> OTHER INFORMATION: exon #1 of human B-FSH (NM_000510)	
125	<400> SEQUENCE: 3	
126	atg aag aca ctc cag ttt ttc ctt ttc tgt tgc tgg aaa gca atc	48
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128	1 5 10 15	
130	tgc tgc aat agc tgt gag ctg acc aac atc acc att gca ata gag aaa	96
131	Cys Cys Asn Ser Cys Glu Leu Thr Asn Ile Thr Ile Ala Ile Glu Lys	
132	20 25 30	
134	gaa gaa tgt cgt ttc tgc ata agc atc aac acc act tgg tgt gct ggc	144
135	Glu Glu Cys Arg Phe Cys Ile Ser Ile Asn Thr Thr Trp Cys Ala Gly	
136	35 40 45	
138	tac tgc tac acc agg	159
139	Tyr Cys Tyr Thr Arg	
140	50	
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144	<211> LENGTH: 231	
145	<212> TYPE: DNA	
146	<213> ORGANISM: Homo sapiens	
148	<220> FEATURE:	
149	<221> NAME/KEY: exon	
150	<222> LOCATION: (1)..(231)	

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151 <223> OTHER INFORMATION: exon #2 of human B-FSH (NM_000510)

153 <400> SEQUENCE: 4

154 gat ctg gtg tat aag gac cca gcc agg ccc aaa atc cag aaa aca tgt	48
155 Asp Leu Val Tyr Lys Asp Pro Ala Arg Pro Lys Ile Gln Lys Thr Cys	
156 1 5 10 15	
158 acc ttc aag gaa ctg gta tat gaa aca gtg aga gtg ccc ggc tgt gct	96
159 Thr Phe Lys Glu Leu Val Tyr Glu Thr Val Arg Val Pro Gly Cys Ala	
160 20 25 30	
162 cac cat gca gat tcc ttg tat aca tac cca gtg gcc acc cag tgt cac	144
163 His His Ala Asp Ser Leu Tyr Thr Tyr Pro Val Ala Thr Gln Cys His	
164 35 40 45	
166 tgt ggc aag tgt gac agc gac act gat tgt act gtg cga ggc ctg	192
167 Cys Gly Lys Cys Asp Ser Asp Ser Thr Asp Cys Thr Val Arg Gly Leu	
168 50 55 60	
170 ggg ccc agc tac tgc tcc ttt ggt gaa atg aaa gaa taa	231
171 Gly Pro Ser Tyr Cys Ser Phe Gly Glu Met Lys Glu	
172 65 70 75	

175 <210> SEQ ID NO: 5

176 <211> LENGTH: 129

177 <212> TYPE: PRT

178 <213> ORGANISM: Homo sapiens

180 <400> SEQUENCE: 5

181 Met Lys Thr Leu Gln Phe Phe Leu Phe Cys Cys Trp Lys Ala Ile	
182 1 5 10 15	
184 Cys Cys Asn Ser Cys Glu Leu Thr Asn Ile Thr Ile Ala Ile Glu Lys	
185 20 25 30	
187 Glu Glu Cys Arg Phe Cys Ile Ser Ile Asn Thr Thr Trp Cys Ala Gly	
188 35 40 45	
190 Tyr Cys Tyr Thr Arg Asp Leu Val Tyr Lys Asp Pro Ala Arg Pro Lys	
191 50 55 60	
193 Ile Gln Lys Thr Cys Thr Phe Lys Glu Leu Val Tyr Glu Thr Val Arg	
194 65 70 75 80	
196 Val Pro Gly Cys Ala His His Ala Asp Ser Leu Tyr Thr Tyr Pro Val	
197 85 90 95	
199 Ala Thr Gln Cys His Cys Gly Lys Cys Asp Ser Asp Ser Thr Asp Cys	
200 100 105 110	
202 Thr Val Arg Gly Leu Gly Pro Ser Tyr Cys Ser Phe Gly Glu Met Lys	
203 115 120 125	

205 Glu

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210 <211> LENGTH: 390

211 <212> TYPE: DNA

212 <213> ORGANISM: Artificial Sequence

214 <220> FEATURE:

215 <223> OTHER INFORMATION: B-FSH X1X2 PCR product

217 <300> PUBLICATION INFORMATION:

218 <308> DATABASE ACCESSION NO: GenBank / NM_000510

219 <309> DATABASE ENTRY DATE: 2002-11-05

220 <313> RELEVANT RESIDUES: (1)...(390)

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222 <400> SEQUENCE: 6
 223 atgaagacac tccagtttt cttcctttc tggctgatgg aagcaatctg ctgcataatgc 60
 225 tgtgagctga ccaacatcac cattgcaata gagaaggaa aatgtcggtt ctgcataagc 120
 227 atcaacacca cttgggtgtgc tggctactgc tacaccaggg atctgggtta taaggaccca 180
 229 gccaggcccc aaatccagaa aacatgtacc ttcaaggaac tggtatatga aacagtgaga 240
 231 gtgcccggct gtgctcacca tgcagattcc ttgtatacat acccagtggc caccagggt 300
 233 cactgtggca agtgtgacag cgacagcaact gattgtactg tgcgaggcct gggccccc 360
 235 tactgctcct ttggtaaat gaaagaataa 390

238 <210> SEQ ID NO: 7
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 240 <212> TYPE: DNA
 241 <213> ORGANISM: Artificial Sequence
 243 <220> FEATURE:
 244 <223> OTHER INFORMATION: primer PFX1 n.t. position 40-64 in SEQ ID NO: 1, cDNA sequence
 245 for human B-FSH
 248 <400> SEQUENCE: 7
 249 atgaagacac tccagtttt cttcc 25
 252 <210> SEQ ID NO: 8
 253 <211> LENGTH: 21
 254 <212> TYPE: DNA
 255 <213> ORGANISM: Artificial Sequence
 257 <220> FEATURE:
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 259 for human B-FSH
 261 <400> SEQUENCE: 8
 262 cctggtagt cagtagccag c 21
 265 <210> SEQ ID NO: 9
 266 <211> LENGTH: 21
 267 <212> TYPE: DNA
 268 <213> ORGANISM: Artificial Sequence
 270 <220> FEATURE:
 271 <223> OTHER INFORMATION: primer PFX2 n.t. position 199-219 in SEQ ID NO: 1, cDNA sequence
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 274 <400> SEQUENCE: 9
 275 gatctgggt ataaggaccc a 21
 278 <210> SEQ ID NO: 10
 279 <211> LENGTH: 23
 280 <212> TYPE: DNA
 281 <213> ORGANISM: Artificial Sequence
 283 <220> FEATURE:
 284 <223> OTHER INFORMATION: primer PRX2 n.t. position 429-407 in SEQ ID NO: 1, cDNA sequence
 285 for human B-FSH
 287 <400> SEQUENCE: 10
 288 ttattcttc attcaccaa agg 23
 291 <210> SEQ ID NO: 11
 292 <211> LENGTH: 42
 293 <212> TYPE: DNA
 294 <213> ORGANISM: Artificial Sequence
 296 <220> FEATURE:

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297 <223> OTHER INFORMATION: primer PRX1-PFX2'
 299 <400> SEQUENCE: 11
 300 tgggtcctta tacaccagat ccctggtgta gcagtagcca ga 42
 303 <210> SEQ ID NO: 12
 304 <211> LENGTH: 39
 305 <212> TYPE: DNA
 306 <213> ORGANISM: Artificial Sequence
 308 <220> FEATURE:
 309 <223> OTHER INFORMATION: primer SDK-PFX1
 311 <400> SEQUENCE: 12
 312 tcgaaggaga tagaatgaag acactccagt ttttcttcc 39
 315 <210> SEQ ID NO: 13
 316 <211> LENGTH: 180
 317 <212> TYPE: DNA
 318 <213> ORGANISM: Homo sapiens
 320 <220> FEATURE:
 321 <221> NAME/KEY: misc_feature
 322 <222> LOCATION: (1)..(180)
 323 <223> OTHER INFORMATION: X1UR product
 325 <400> SEQUENCE: 13
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 328 tgtgagctga ccaacatcac cattgcaata gagaaaagaag aatgtcggtt ctgcataagc 120
 330 atcaacacca cttgggtgtgc tggctactgc tacaccaggg atctggtgta taaggaccca 180
 333 <210> SEQ ID NO: 14
 334 <211> LENGTH: 704
 335 <212> TYPE: DNA
 336 <213> ORGANISM: Homo sapiens
 338 <220> FEATURE:
 339 <221> NAME/KEY: misc_feature
 340 <222> LOCATION: (1)..(704)
 341 <223> OTHER INFORMATION: alpha-FSH (NM_000735) full length cDNA sequence
 343 <400> SEQUENCE: 14
 344 gcagttactg agaactcata agacgaagct aaaatccctc ttccggatcca cagtcacccg 60
 346 ccctgaacac atcctgcaaa aagcccagag aaaggagcgc catggattac tacagaaaaat 120
 348 atgcagctat ctttctggtc acattgtcg tgttctgca tggtctccat tccgctcctg 180
 350 atgtgcagga ttgcccgagaa tgcacgctac aggaaaaacc attcttctcc cagccgggtg 240
 352 ccccaatact tcagtgcatg ggctgctgct tctctagagc atatcccact ccactaaggt 300
 354 ccaagaagac gatgttggtc caaaaagaacg tcacccatcaga gtccacttgc tggtagcta 360
 356 aatcatataa cagggtcaca gtaatgggg gtttcaaagt ggagaaccac acggcgtgcc 420
 358 actgcagtagt ttgttattat cacaatctt aaatgtttt ccaagtgctg tcttgatgac 480
 360 tgctgatttt ctggaatgga aaattaagtt gtttagtgtt tatggctttg tgagataaaa 540
 362 ctctcccttt ccttaccata ccactttgac acgcttcaag gatatactgc agctttactg 600
 364 cttccctcct tatcctacag tacaatcagc agtctagttc ttttcatgg gaatgaatac 660
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 369 <210> SEQ ID NO: 15
 370 <211> LENGTH: 30
 371 <212> TYPE: DNA
 372 <213> ORGANISM: Artificial Sequence
 374 <220> FEATURE:

VERIFICATION SUMMARY

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